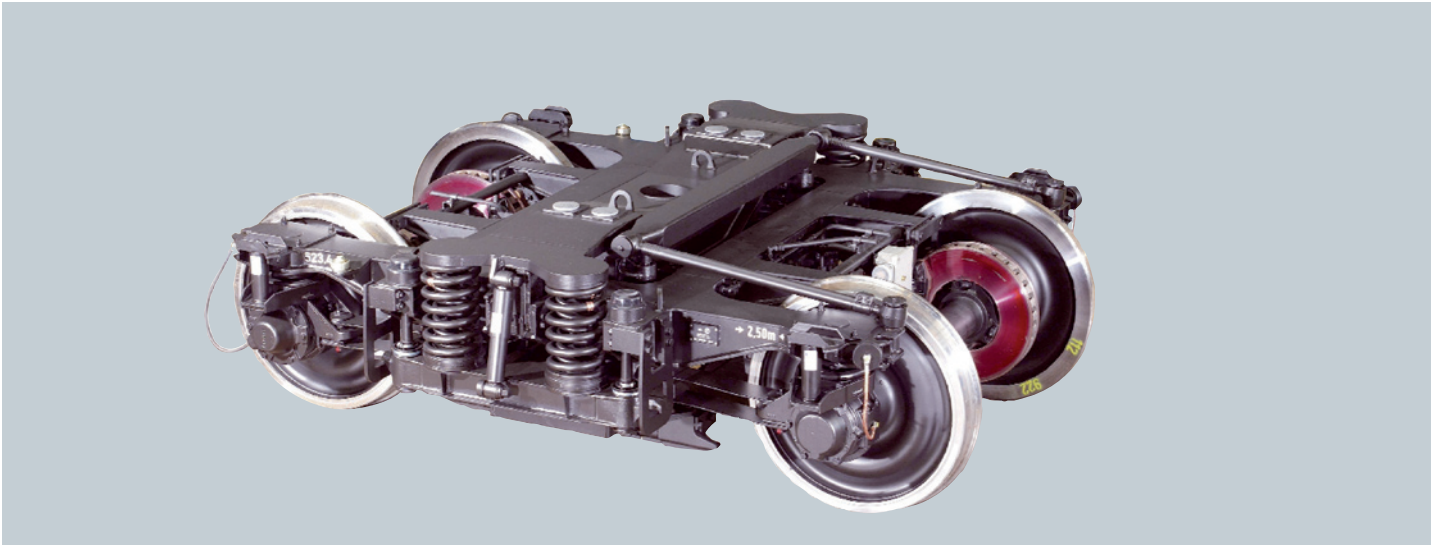


M-Size Bogies

◁ FLEXX Fit Bogies

For Long Distance and High Speed Coaches ▷



The *FLEXX Fit* Bogies were developed for intercity and high speed passenger coach applications, for which excellent ride quality is required. Bogie stability up to high speeds is ensured by the failsafe friction yaw-damping system. An advantage of this system is its low maintenance costs.

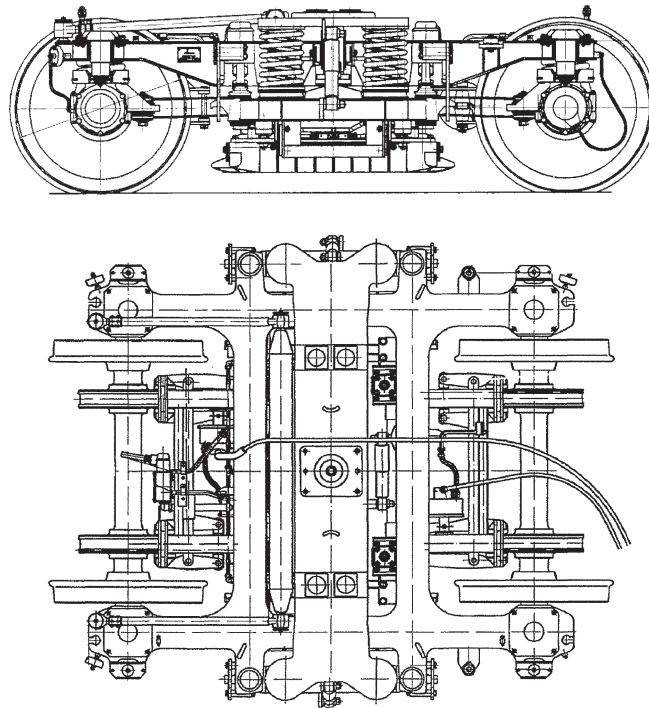
The *FLEXX Fit* bogies offer excellent ride quality by virtue of their spring bolster concept, they are easy to maintain and provide the highest levels of reliability and availability. The axle guidance with leafsprings is rugged and maintenance free. The *FLEXX Fit* bogies are suitable for 2 to 4 axle-mounted disc brakes per axle.

The *FLEXX Fit* design is robust and easy to adapt to different speed levels (160 to 280 km/h) thanks to several brake system and yaw damping options.

Over 7,000 *FLEXX Fit* bogies are currently in operation in e.g. Germany, Austria, Poland, Hungary, Iran and Saudi Arabia. The picture shows a *FLEXX Fit* bogie in *ICE 1*** service in Germany.



ICE 1, Germany



Characteristics

Fabricated H-frame and spring bolster
Primary suspension with nested coilsprings
Wear free guidance of the wheelsets by leaf spring axle guidance system
Primary vertical dampers
Split axleboxes enable rapid wheelset exchange
Secondary suspension utilises spring bolster mounted nested coil springs
The pendulums use elastomeric bushes to allow wear free articulation
Progressive lateral suspension
Secondary lateral and vertical dampers
2, 3 or 4 axle-mounted brake discs per axle
Electro magnetic track brake
Vehicle interface with a bolster and elastic centre pivot arrangement
Optional electro magnetic track brake, WSP and/or flange lubrication

Technical Data

Gauge	1,435 mm
Wheel base	2,500 mm
Wheel diameter max.	920 mm
Wheel diameter min.	860 mm
Height over secondary suspension	965 mm
Maximum speed	160 - 280 km/h
Mass	6.1 t - 7.5 t
Maximum axle load	16 t

Bombardier Transportation

Siegstraße 27
57250 Netphen, Germany

Tel + 49 271 702 0
Fax + 49 271 702 222

www.bombardier.com

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